

MICROORGANISM CAPABLE OF PRODUCING EICOSAPENTAENOIC ACID AND PRODUCTION OF EICOSAPENTAENOIC ACID

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Abstract

PROBLEM TO BE SOLVED: To newly isolate the subject microorganisms (EPA-productive bacteria) viable at ≥ 30 deg.C and having the ability to carry out biosynthesis of eicosapentaenoic acid(EPA).

SOLUTION: This new microorganism belongs to the genus Shewanella and be capable of producing EPA; wherein the upper limit of the production temperature is 32 deg.C. The other objective EPA is obtained by culturing the microorganism and isolating a lipid fraction from the cultured product.

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